

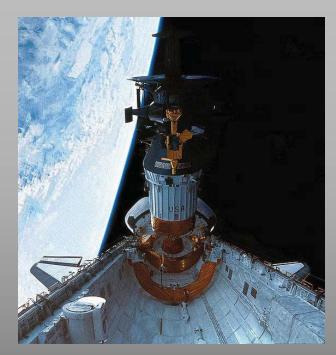
Space Launch System The Future of Exploration

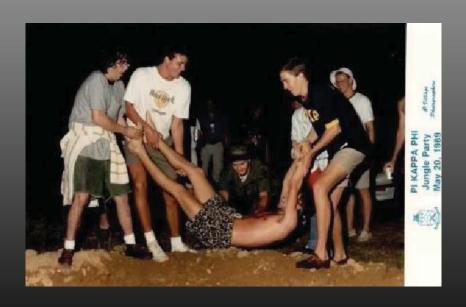
Brian Matisak, Ground Operations Liaison Manager

> [Degree(s) from A.U.: Aerospace Engineering] November 15, 2013











How I Got
Here
From AU
College of
Engineering











STEM Movie with college students and young engineers, etc.



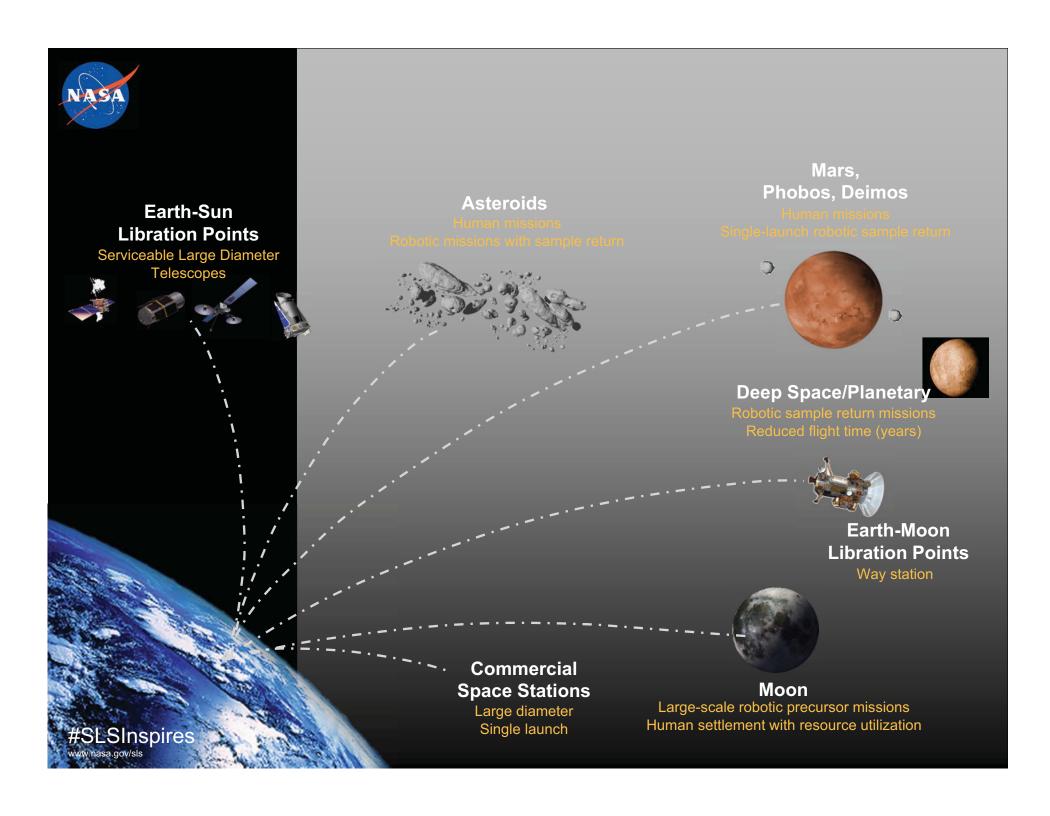
A
Deeper
Purpose,
A Bolder
Mission





SLS is the first step in the journey to Mars







NASA's Space Launch System



Interim Cryogenic Propulsion Stage:
Based on the Delta IV Heavy upper stage; the power to leave Earth

Solid Rocket Boosters:

Built on Space Shuttle hardware; more powerful for a new era of exploration

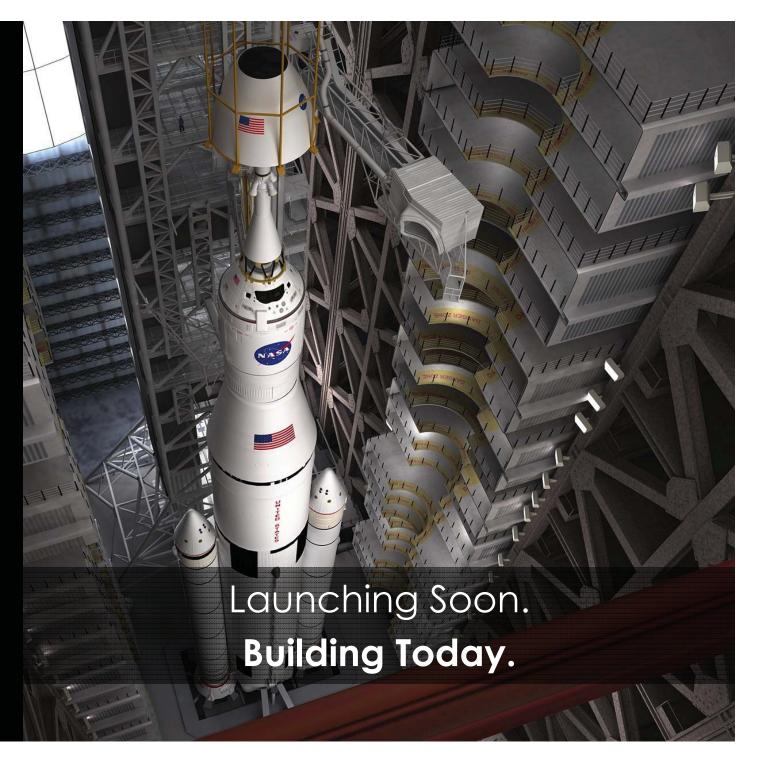


70 Metric Ton Expanded View





NASA's
Space
Launch
System





NASA

SLS Nationwide Team

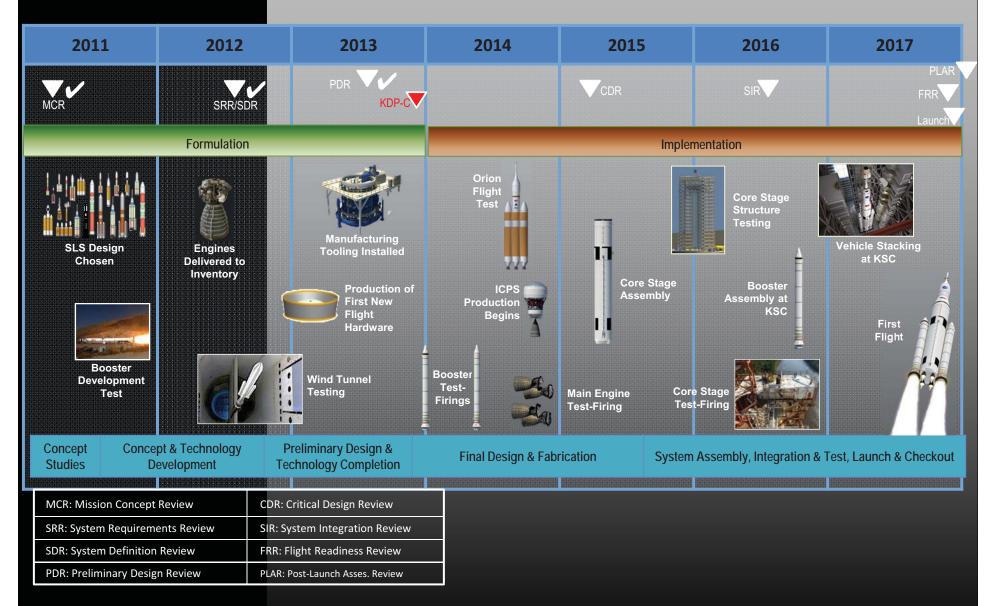


- Engaging the U.S. Aerospace Industry
- Strengthening Sectors such as Manufacturing
- Advancing Technology and Innovation

224 Subcontracts in 30 States



SLS Development Schedule





'Stack it.
I'm
ready.'
-Tony
Antonelli



Exceeding Expectations



Engines
Tested selective laser
melted part on J-2X at
Stennis Space Center
(March 2013)





Spacecraft & Payload Integration Conducted fit-check of the Multi-Purpose Crew Vehicle Stage Adapter at the Marshall Space Flight Center for 2014 Exploration Flight Test (June 2013)

Boosters Conducted Thrust Vector Flight Control Test at ATK in Promontory, UT (Jan 2013)

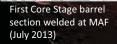




Advanced
Development
Conducted F-1 engine
hot-fire testing at
Marshall
(Jan 2013)

Core Stage
Transferred Core Stage
test panels to Michoud
Assembly Facility (MAF)
in New Orleans
(Spring 2013)







vstems Engineering & Integration
Tested buffet model in Langley Research Center's Transonic Dynamics Wind Tunnel (Jan 2013)

On Course for First Flight in 2017



How Your Major/ Career Connects

Auburn University College of Engineering Degrees

- Aerospace Engineering
- Biosystems Engineering
- Chemical Engineering
- Civil Engineering
- Environmental Science
- ◆ Computer Science
- Software Engineering



Tim Owen



Jan Davis

- Wireless Engineering
- Electrical Engineering
- Industrial and Systems Engineering
- Mechanical Engineering
- Materials Engineering (Department of Mechanical Engineering)
- Polymer and Fiber Engineering



Todd May (SLS Program Manager)



Dave Whitten



Chris Crumbly



Your future begins now.

www.usajobs.gov

https://intern.nasa.gov /index.html



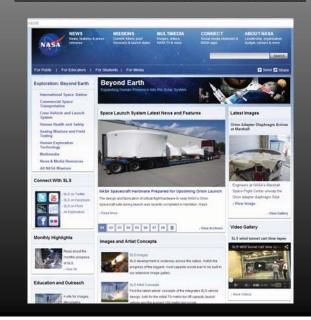
www.nasa.gov/sls #slsinspires



Connect



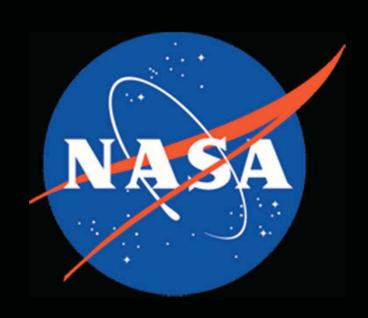
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www.nasa.gov/sls



"Man cannot discover new oceans unless he has the courage to lose sight of the shore."

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Questions & Answers